

ABSTRACT

According to an aspect of the present invention, there is provided a dye-sensitized solar cell including: a first substrate having a light-transmitting property; a semiconductor electrode containing a sensitizing dye and arranged with a first surface thereof facing the first substrate; a first collector electrode arranged on a second surface of the semiconductor electrode; an insulating layer arranged in contact with the first collector electrode; a catalytic electrode layer arranged with a first surface thereof facing the insulating layer; a second substrate arranged on a second surface of the catalytic electrode layer; and an electrolyte material incorporated in the semiconductor electrode, the first collector electrode and the insulating layer. This dye-sensitized solar cell becomes lower in internal resistance without the need to provide a light-transmitting collector electrode and the like to the light-transmitting first substrate on the light incident side.